

Figure 1

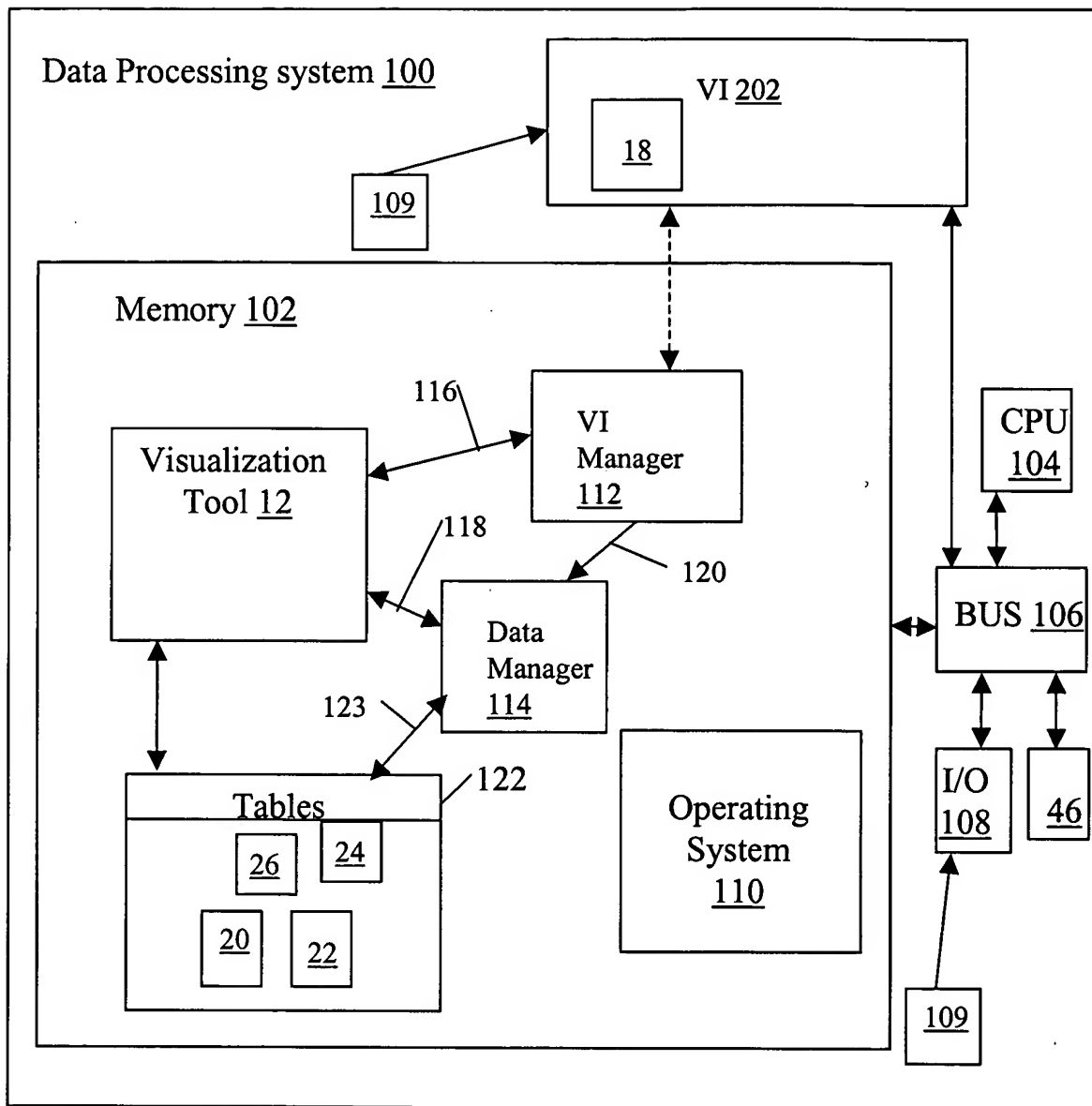


Figure 2

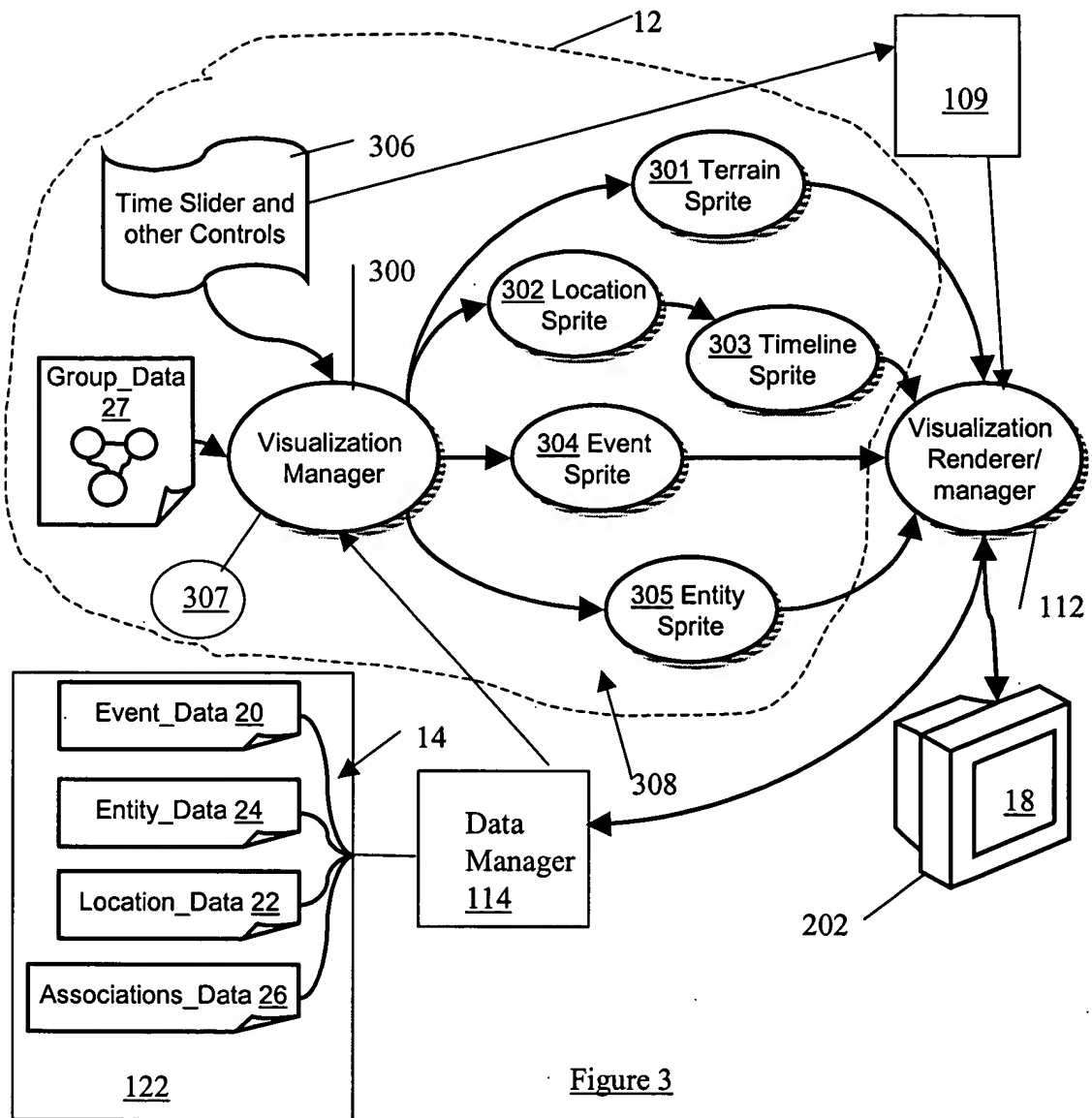


Figure 3

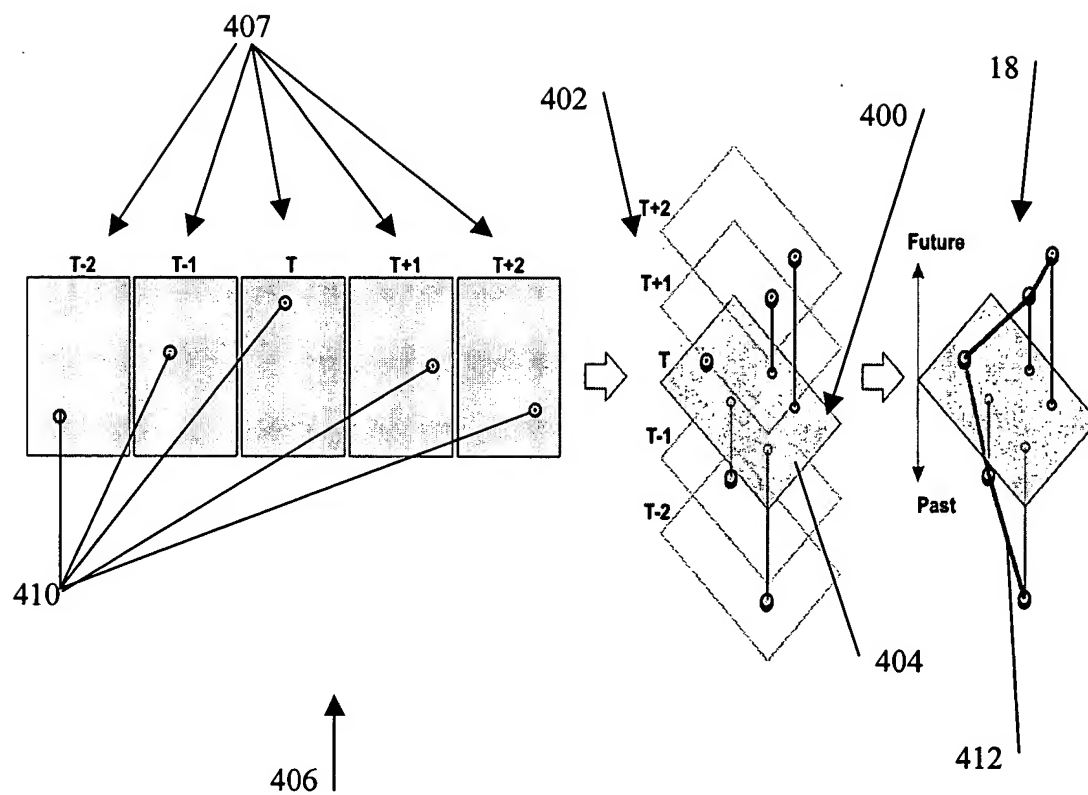
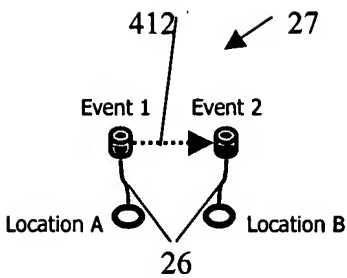
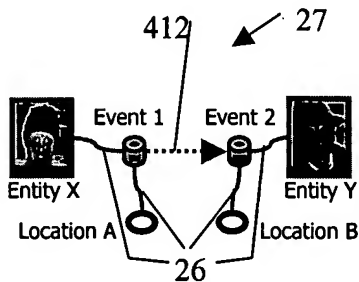
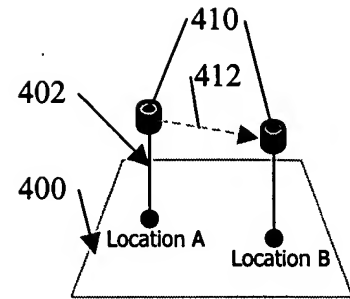


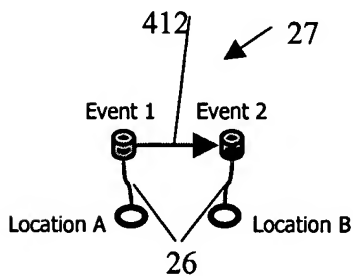
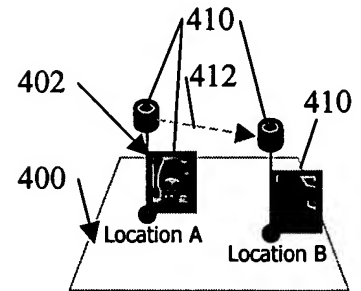
Figure 4



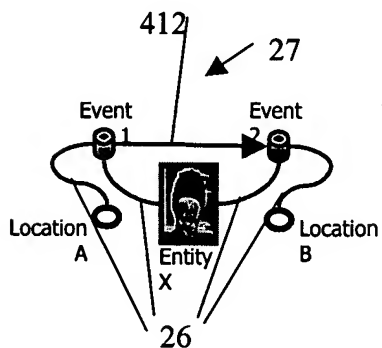
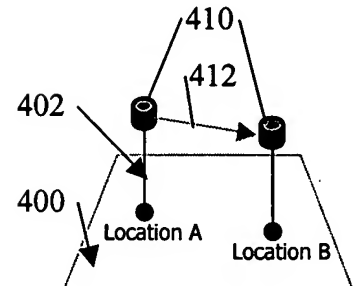
Soft Vector Group
(Phone Call, email, money transfer)
 3 Associations:
 •Event1 occurred at Location A
 •Event 2 occurred at Location B
 •Event 1 directed at Event 2



Soft Vector Group with Actors
(Phone Call, email, money transfer)
 5 Associations: Same as above plus...
 •Entity X present at Event 1
 •Entity Y present at Event 2



Hard Vector Group
(Documented transport such as air or boat travel)
 3 Associations:
 •Event1 occurred at Location A
 •Event 2 occurred at Location B
 •Event 1 moves to Event 2



Hard Vector Group with Actors
(Transport of a person or thing)
 5 Associations: Same as above plus...
 •Entity X present at Event 1 (departure)
 •Entity X present at Event 2 (arrival)

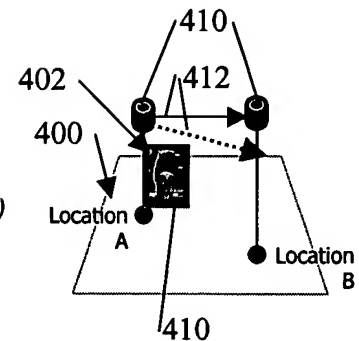
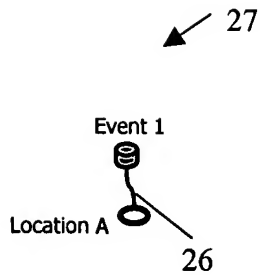
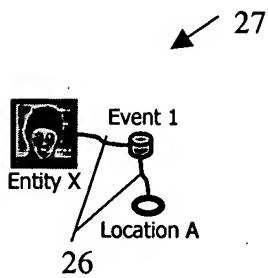
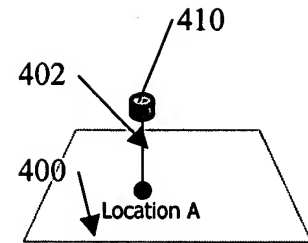


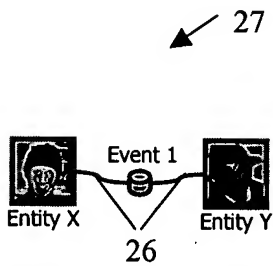
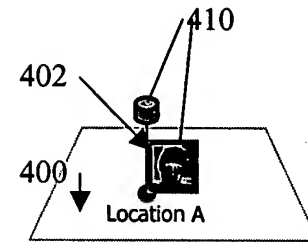
Figure 6



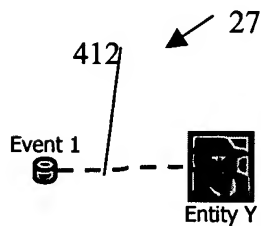
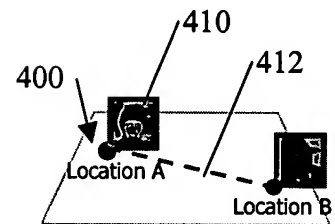
Observation Group
(An Incident, news item or observation)
 1 Association
 •Event 1 occurred at Location A



Observation with Actor
(Involvement in an incident, observer)
 2 Associations:
 •Event 1 occurred at Location A
 •Entity X present at Event 1



Actor Relationship
(Familial or employer-employee relationships, organization membership)
 2 Associations:
 •Entity X member of Event 1
 •Entity Y member of Event 1



Observation Relationship
(Indirect involvement)
 1 Association:
 •Entity X member of Event 1

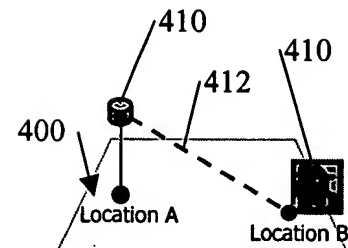


Figure 7

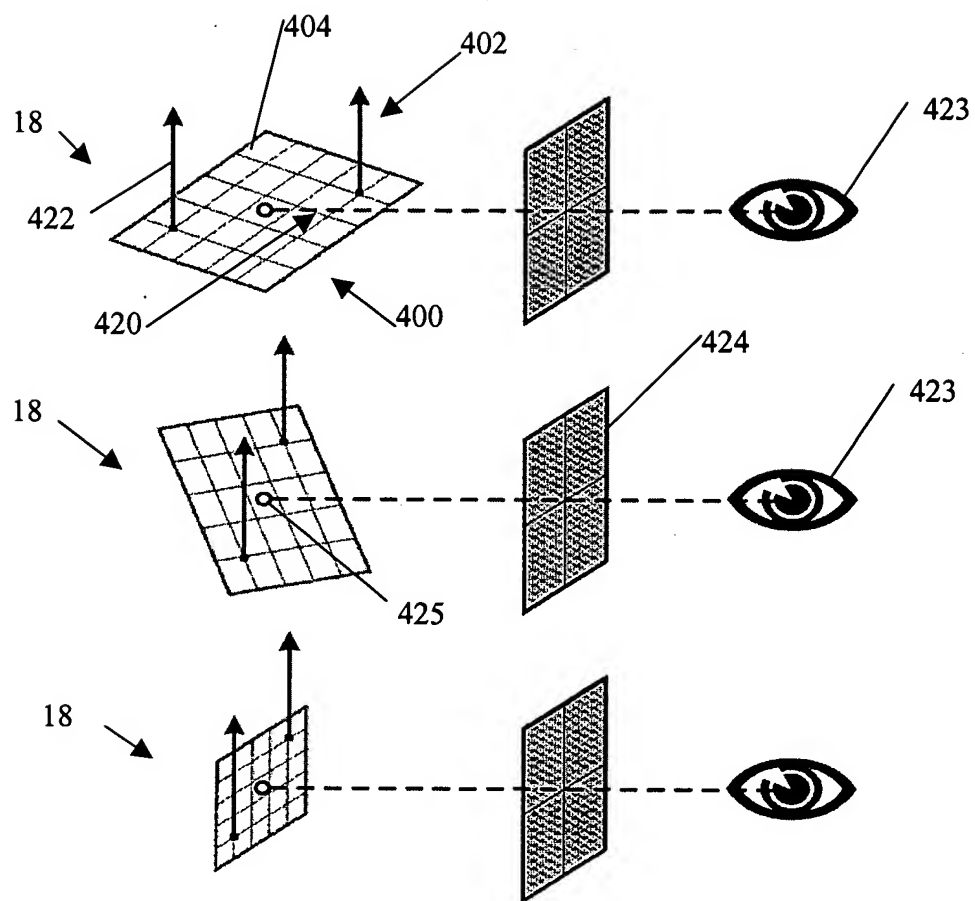


Figure 8

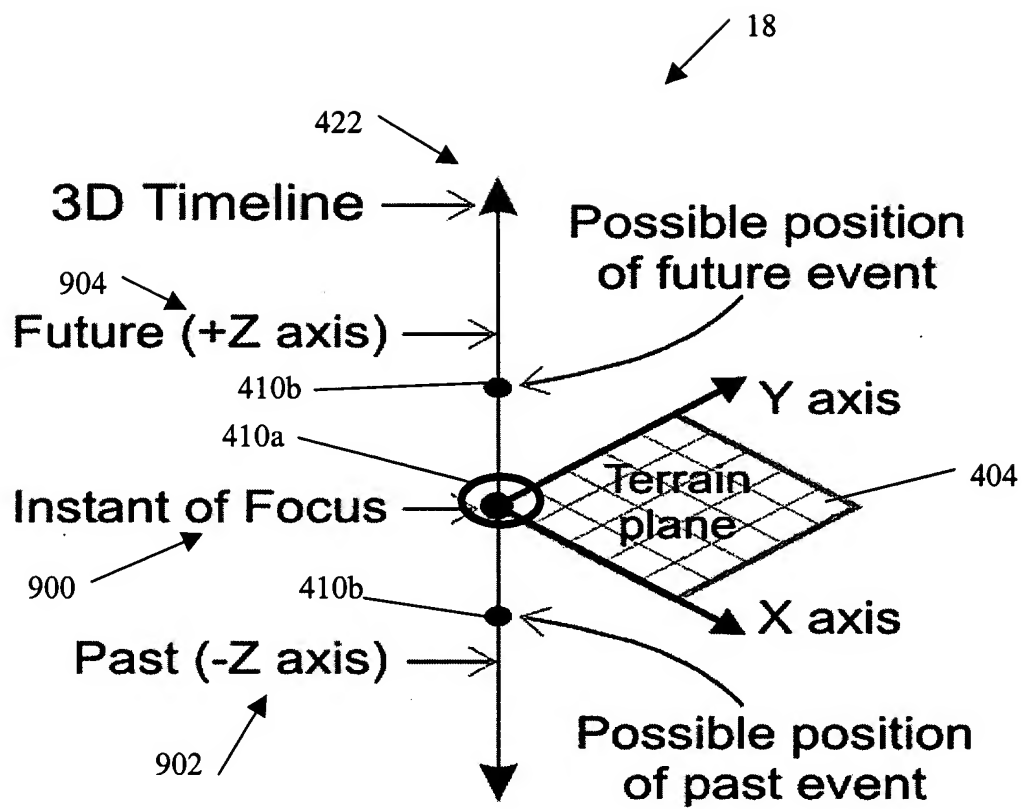


Figure 9

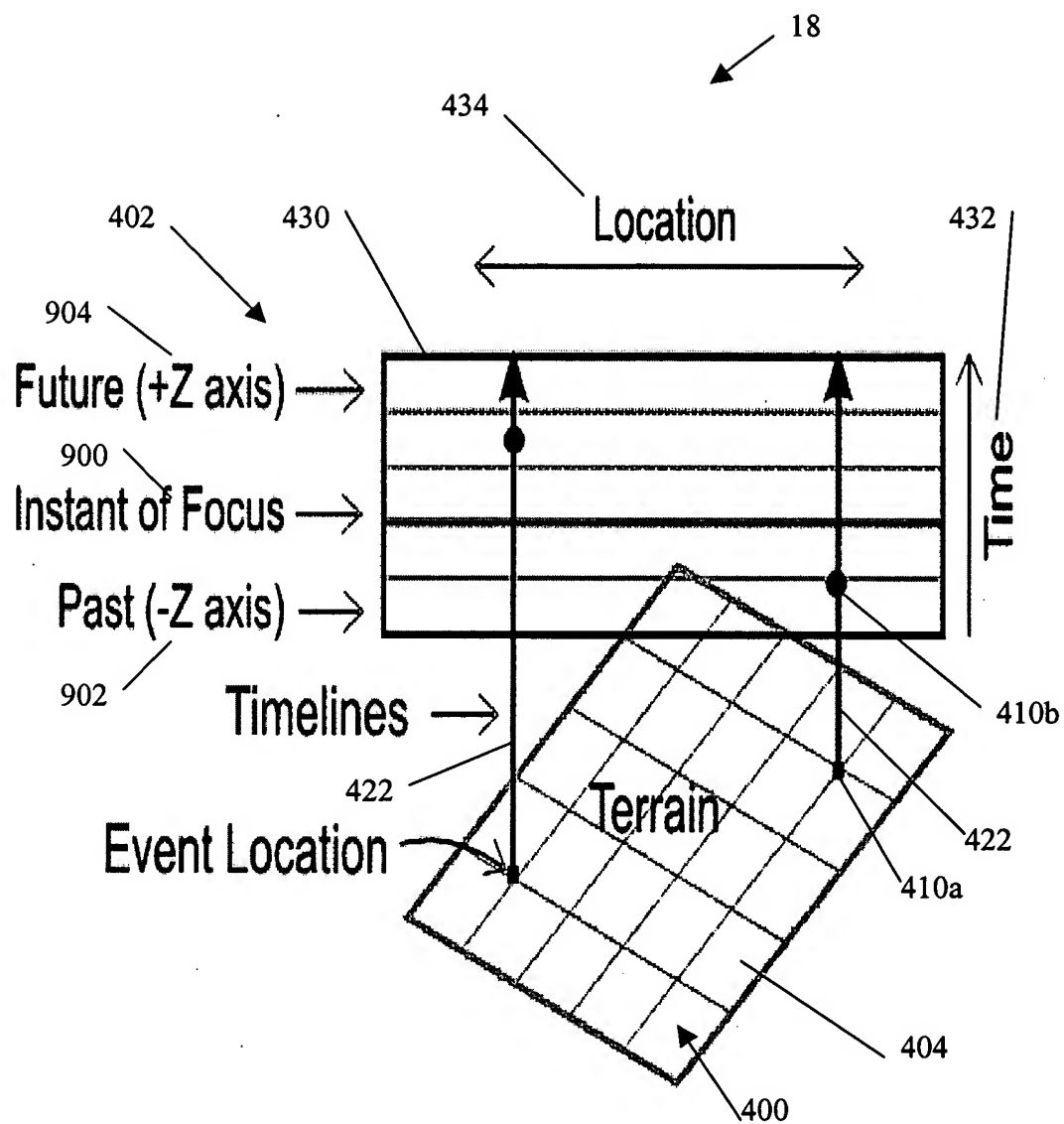


Figure 11

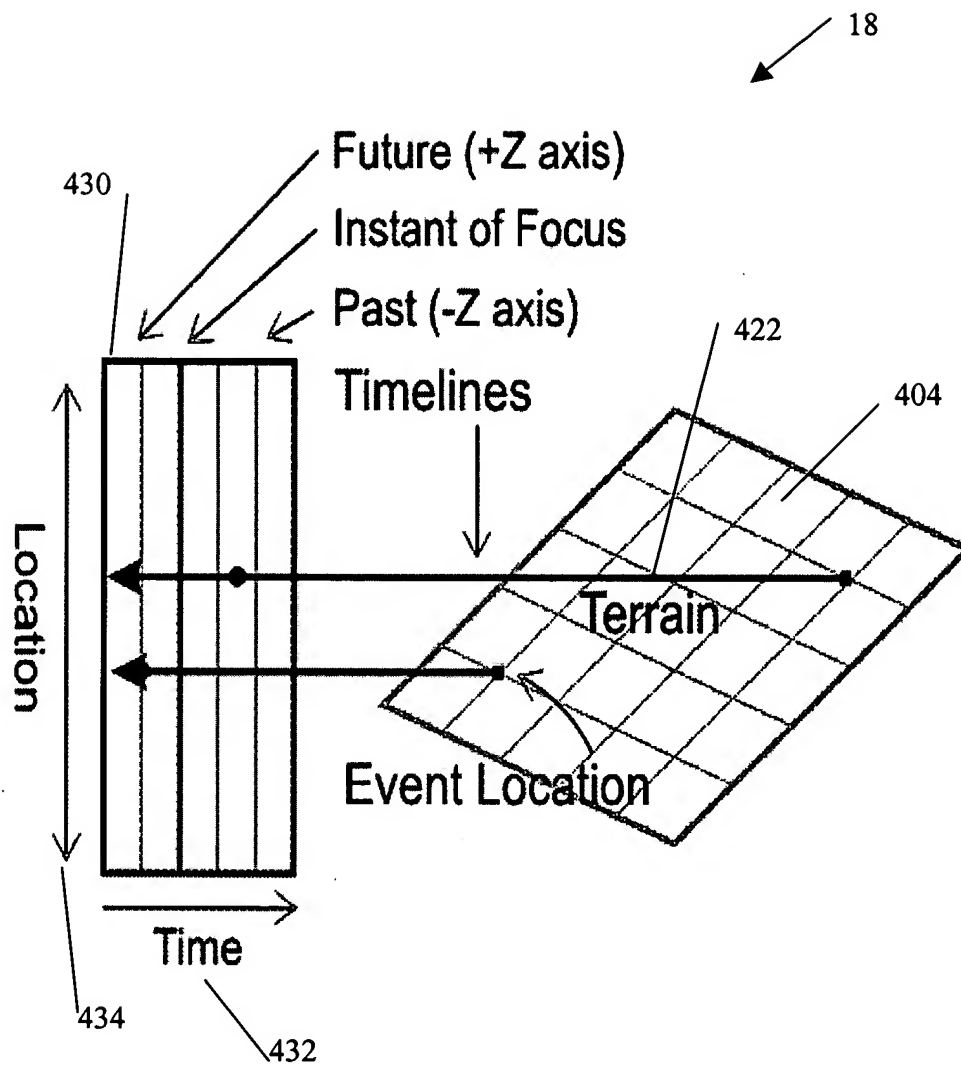


Figure 12

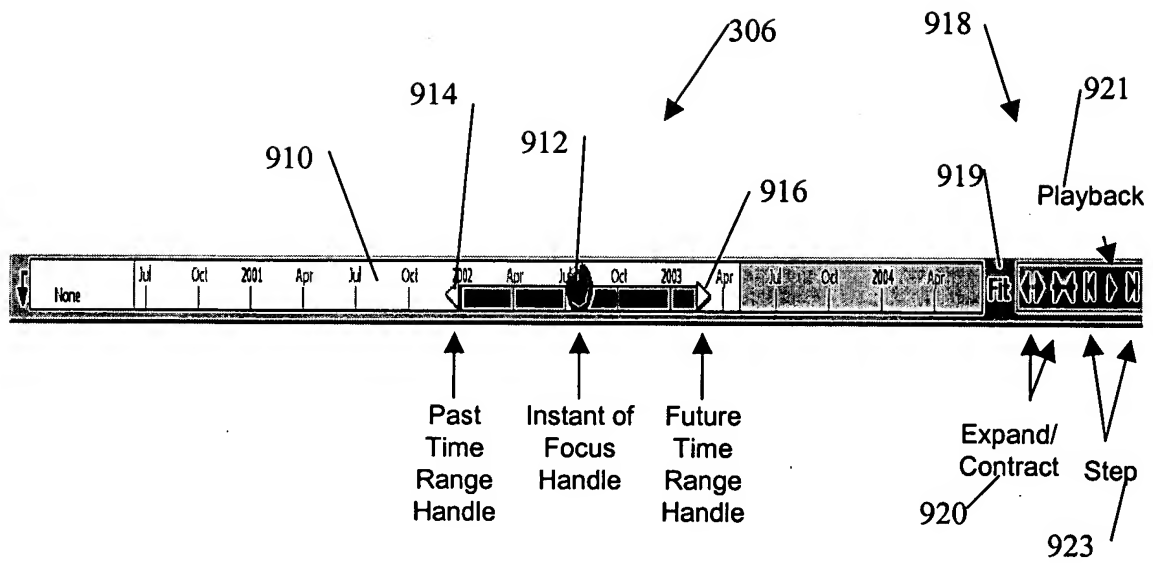


Figure 13

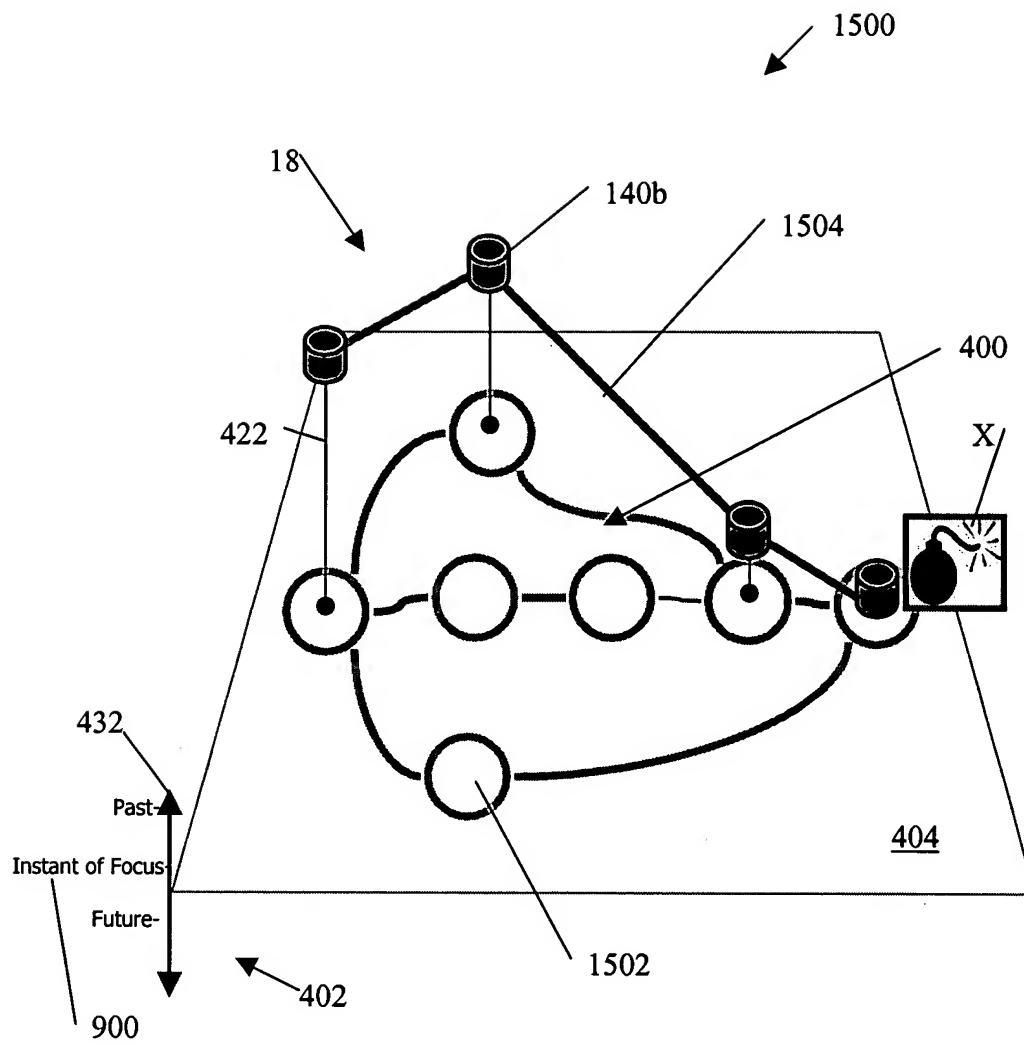


Figure 15

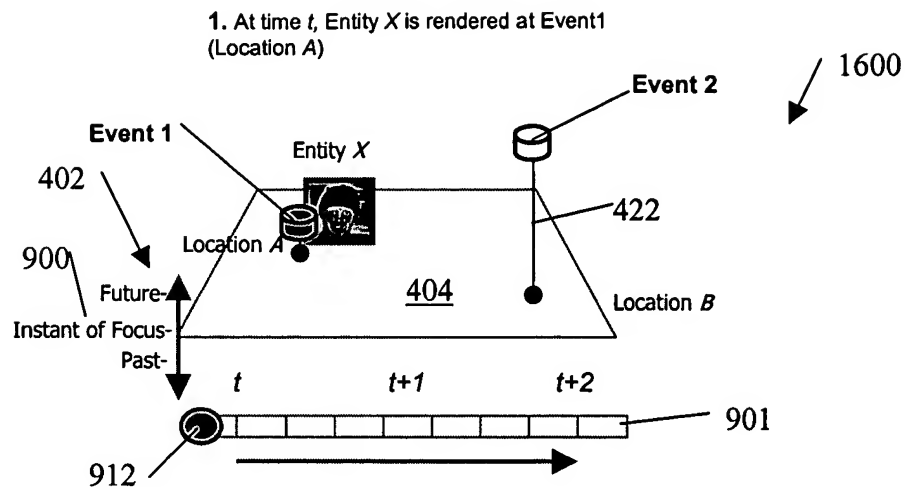
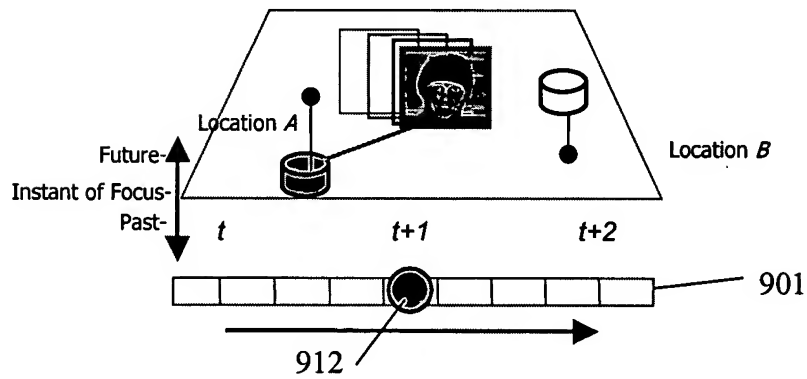
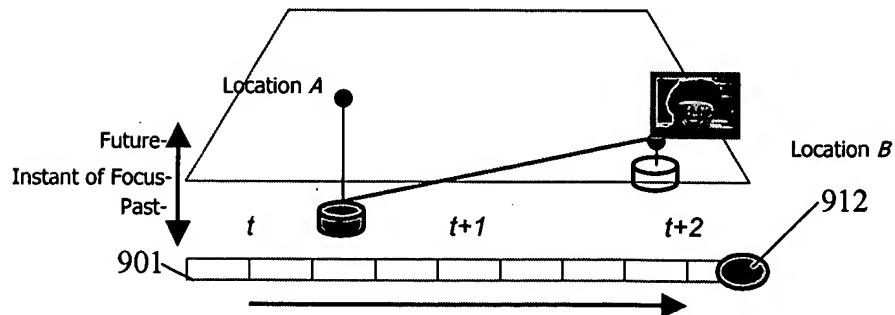


Figure 16

2. At time $t+1$, Entity X is shown moving between known locations (Event1 and Event2)



3. At time $t+2$, Entity X is rendered at Event2 (Location B)



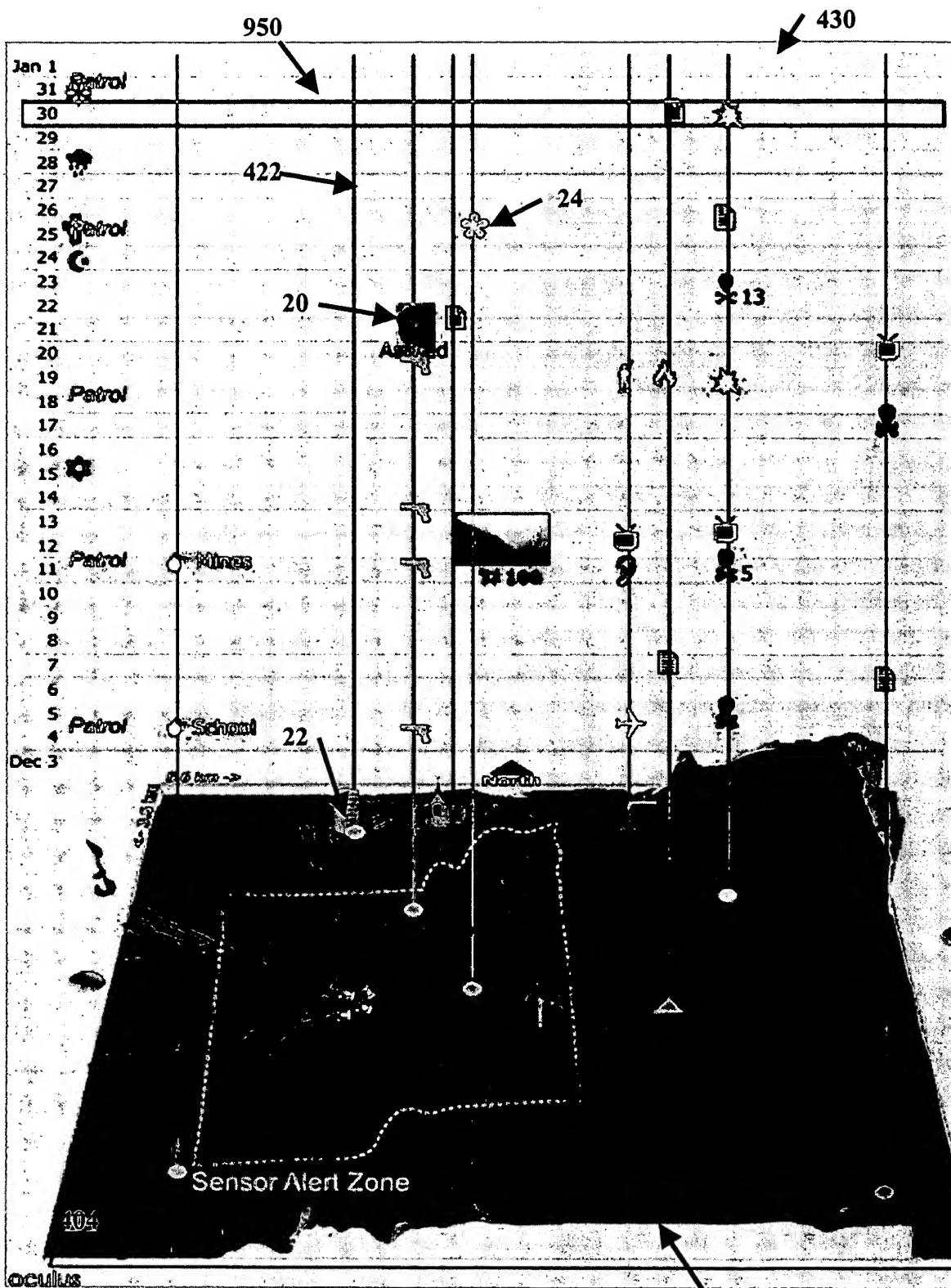


Figure 18

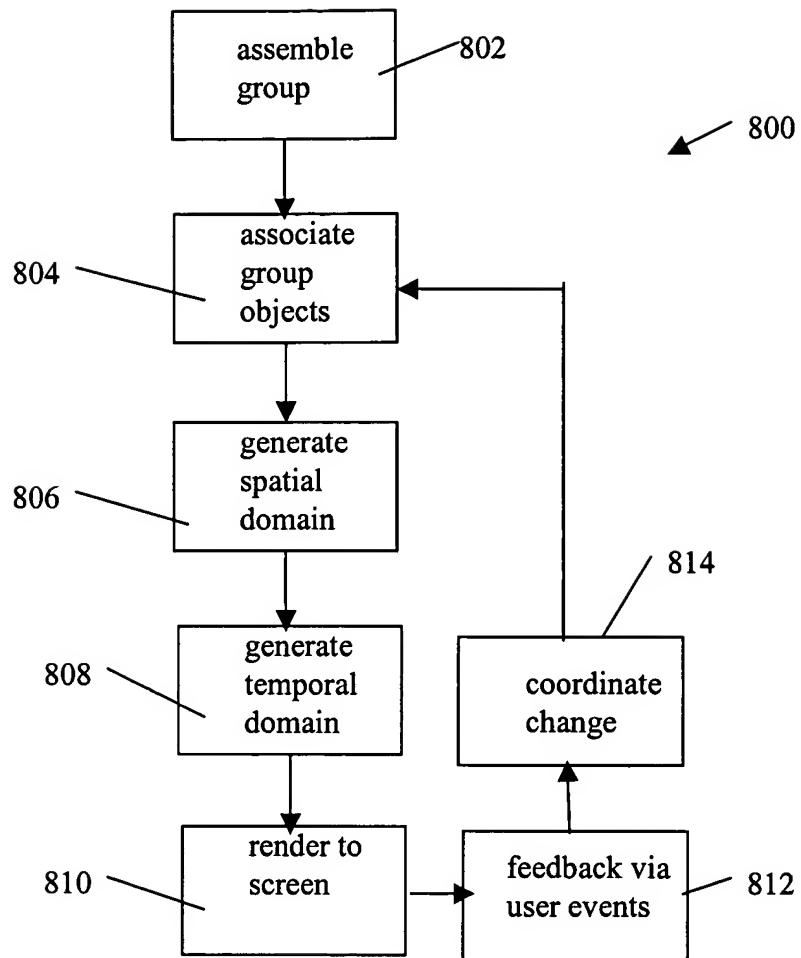


Figure 19